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Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				<i>Complete if Known</i>	
				Application Number	10/693,532
				Filing Date	2003-10-23
				First Named Inventor	WALTON; J. Rodney
				Art Unit	2467
				Examiner Name	TSEGAYE; Saba
Sheet	1	of	7	Attorney Docket No: 020573	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	001	US5479447	12-26-1995	CHOW; Peter S. et al.	
	002	US5790550	08-04-1998	PEETERS; Johan et al.	
	003	US5822374	10-13-1998	LEVIN; Howard E.	
	004	US6072779	06-06-2000	TZANNES; Marcos et al.	
	005	US6122247	09-19-2000	LEVIN; Howard E. et al.	
	006	US6205410	03-20-2001	CAI; Lujing	
	007	US6222888	04-24-2001	KAO; Chiihsin et al.	
	008	US6330277	12-11-2001	GELBLUM; Ehud Alexander et al.	
	009	US6510184	01-21-2003	OKAMURA; Yusaku	
	010	US6631121	10-07-2003	YOON; Sung-Hoon	
	011	US6744811	06-01-2004	KANTSCHUK; Amir	
	012	US6768727	07-27-2004	SOUROUR; Essam et al.	
	013	US6798738	08-28-2004	DO; Sang-Hyun et al.	
	014	US6859503	02-22-2005	PAUTLER; Joseph J. et al.	
	015	US6891858	05-10-2005	MAHESH; Harihara et al.	
	016	US6959174	10-25-2005	TSIEN; Chih C. et al.	
	017	US6980601	12-27-2005	JONES; David Charles	
	018	US6985534	01-10-2006	MEISTER; Wolfgang	
	019	US7003044	02-21-2006	SUBRAMANIAN; Chandrasekarapuram A. et al.	
	020	US7127009	10-24-2006	BERTHET; Antoine et al.	

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	021	US7130362	10-31-2006	GIRARDEAU; James et al.	
	022	US7137047	11-14-2006	MITLIN; Vlad et al.	
	023	US7274734	09-25-2007	TSATSANIS; Michael	
	024	US7333556	02-19-2008	MALTSEV; Alexander A. et al.	
	025	US7356004	04-08-2008	YANO; Takashi et al.	
	026	US7379492	05-27-2008	HWANG; In Tae	
	027	US7508748	03-24-2009	KADOUS; Tamer	
	028	US7599443	10-06-2009	IONESCU; Dumitru M. et al.	
	029	US7986742	07-26-2011	KETCHUM; John W. et al.	
	030	US20020044610	04-18-2002	JONES; David	
	031	US20030003863	01-02-2003	THIELECKE; Jorn et al.	
	032	US20030039317	02-27-2003	TAYLOR; Douglas Hamilton et al.	
	033	US20030185311	10-02-2003	KIM; Yong-Woon	
	034	US20040076224	04-22-2004	ONGGOSANUSI; Eko N. et al.	
	035	US20040151108	08-05-2004	BLASCO CLARET; Jorge Vicente et al.	
	036	US20040151122	08-05-2004	LAU; Kin Nang et al.	
	037	US20040184398	09-23-2004	WALTON; Jay Rod et al.	
	038	US20050047515	03-03-2005	WALTON; J. Rodney et al.	
	039	US20050135284	06-23-2005	NANDA; Sanjiv et al.	

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	040	US20050135295	06-23-2005	WALTON; Jay Rodney et al.	
	041	US20050135318	06-23-2005	WALTON; Jay Rodney et al.	
	042	US20050147177	07-07-2005	SEO; Dong-Youn et al.	
	043	US20050185575	08-25-2005	HANSEN; Christopher J. et al.	
	044	US20050220211	10-06-2005	SHIM; Dong-Hee et al.	
	045	US20050276343	12-13-2005	JONES; David Charles	
	046	US20060018395	01-26-2006	TZANNES; Marcos C.	
	047	US20060067417	03-30-2006	PARK; Chang-Soon et al.	
	048	US20060159120	07-20-2006	KIM; Joonsuk	
	049	US20060209894	09-21-2006	TZANNES; Marcos et al.	
	050	US20060209937	09-21-2006	TANAKA; Yoshinori et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T 6
	051	CN1469662	01-21-2004	LG ELECTRONICS INC.		<input checked="" type="checkbox"/>
/ST/	052	CN1537371	10-13-2004	MATSUSHITA ELECTRIC IND CO LTD.		<input checked="" type="checkbox"/>
/ST/	053	EP1137217	09-26-2001	ERICSSON TELEFON AB L M [SE]		<input type="checkbox"/>

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		Country Code <sup>3</sup> -Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
/ST/	054	EP1416688A1	05-06-2004	MOTOROLA INC [US]		<input type="checkbox"/>
/ST/	055	EP1447934A1	08-18-2004	INST EURECOM G I E [FR]		<input type="checkbox"/>
/ST/	056	JP06003956	01-14-1994	SEIKO EPSON CORP.		<input checked="" type="checkbox"/>
/ST/	057	JP2000078105	03-14-2000	NEC CORP.		<input checked="" type="checkbox"/>
/ST/	058	JP2002232943A	08-16-2002	SONY CORP.		<input checked="" type="checkbox"/>
/ST/	059	JP2002504283	02-05-2002	AWARE INC.		<input checked="" type="checkbox"/>
/ST/	060	JP2003198442	07-11-2003	HITACHI LTD., et al.		<input checked="" type="checkbox"/>
/ST/	061	JP2004266586	09-24-2004	HITACHI LTD.		<input checked="" type="checkbox"/>
/ST/	062	JP2004297172	10-21-2004	SHARP CORP.		<input checked="" type="checkbox"/>
	<del>063</del>	<del>JP2004535694</del>	<del>11-25-2004</del>	<del>QUALCOMM INCORPORATED.</del>		<input checked="" type="checkbox"/>
/ST/	064	JP2005519520	06-30-2005	QUALCOMM INCORPORATED.		<input checked="" type="checkbox"/>
/ST/	065	JP2006504372	02-02-2006	QUALCOMM INCORPORATED.		<input checked="" type="checkbox"/>
/ST/	066	RU2139633	10-10-1999	SAMSUNG ELECTRONICS CO., LTD.		<input checked="" type="checkbox"/>
	<del>067</del>	<del>RU2107781G2</del>	<del>01-27-2000</del>	<del>OLIVETTI TELEMEDIA SPA [IT]</del>		<input checked="" type="checkbox"/>
/ST/	068	TW545006B	08-01-2003	WORLDSPACE MAN CORP [US]		<input checked="" type="checkbox"/>
/ST/	069	TW583842B	04-11-2004	KONINKL PHILIPS ELECTRONICS NV [NL]		<input checked="" type="checkbox"/>
/ST/	070	TWI230525	04-01-2005	QUALCOMM INC [US]		<input checked="" type="checkbox"/>
/ST/	071	WO03010994A1	02-06-2003	NEXO [FR], et al.		<input type="checkbox"/>

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		Country Code <sup>3</sup> -Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
/ST/	072	WO03075479	09-12-2003	QUALCOMM INCORPORATED [US]		<input type="checkbox"/>
/ST/	073	WO04038986	05-06-2004	QUALCOMM INCORPORATED,US.		<input type="checkbox"/>
/ST/	074	WO05041515	05-06-2005	QUALCOMM INC.		<input type="checkbox"/>
/ST/	075	WO05043855	05-12-2005	QUALCOMM INCORPORATED [US]		<input type="checkbox"/>
/ST/	076	WO2004038985A2	05-06-2004	QUALCOMM INC [US]		<input type="checkbox"/>
/ST/	077	WO2005046113A2	05-19-2005	ATHEROS COMM INC [US], et al.		<input type="checkbox"/>
/ST/	078	WO86007223	12-04-1986	TELEBIT CORPORATION.		<input type="checkbox"/>
	079	<del>WO9307684A1</del>	<del>04-15-1993</del>	<del>SIXTEL SPA (IT)</del>		<input type="checkbox"/>
/ST/	080	WO9507578	03-16-1995	QUALCOMM INCORPORATED [US]		<input type="checkbox"/>
/ST/	081	WO9857472	12-17-1998	AWARE INC [US]		<input type="checkbox"/>
/ST/	082	WO99014878	03-25-1999	QUALCOMM INCORPORATED.		<input type="checkbox"/>

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	083	GRUNHEID, R. et al., "Adaptive Modulation and Multiple Access for the OFDM Transmission Technique," Wireless Personal Communications 13: 5/13/2000, 2000 Kluwer Academic Publishers, pp. 4-15, XP000894156.	<input type="checkbox"/>
	084	LE GOFF, S. ET AL.: "Turbo-codes and high spectral efficiency modulation," IEEE INTERNATIONAL CONFERENCE ON COMMUNICATIONS, 1994. ICC '94,	<input type="checkbox"/>

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		SUPERCOMM/ICC '94, CONFERENCE RECORD, 'SERVING HUMANITY THROUGH COMMUNICATIONS.' pp. 645-649, vol. 2, 1-5 MAY 1994, XP010126658, doi: 10.1109/ICC.1994.368804.		
	085	Singapore Search Report - SG20104266-1 - Hungary Intellectual Patent Office - 2011-09-08 (050452SGD2).	<input type="checkbox"/>	
	086	SONG, Bong-Gee et al., "Prefilter design using the singular value decomposition for MIMO equalization," 1996 Conference Record of the Thirtieth Asilomar Conference on SIGNALS, SYSTEMS AND COMPUTERS, vol. 1, pp. 34-38, 3-6 November 1996, XP010231388, DOI : 10.1109/ACSSC.1996.600812, page 35, column 2, paragraph 4 through page 36, column 1.	<input type="checkbox"/>	
	087	WYGLINSKI, Alexander. "Physical Layer Loading Algorithms for Indoor Wireless Multicarrier Systems," Thesis Paper, McGill University, Montreal, Canada, November 2004, page 109.	<input type="checkbox"/>	

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/Saba Tsegaye/ (03/14/2012)

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